CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/MEW/W.No.14/CSR-07/393/CEMENT/2017-18 Date: 21.07.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Mahendra Engineering Works,** (Prop. G. Venkatesh), No. 243, 15th D Cross, 2nd stage, 2nd phase, West of Chord Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of Work	:	Improvements and asphalting to 22nd Cross (Pipeline road) Bhuvaneshwari Nagara 1st Main and 1st A Main road, Brundavana Extn., (from pipeline road) in Bagalagunte Ward No. 14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/96/2017-18 Dated: 20.07.2017
* Sample ID	:	Cement
Sample Received on	:	20.07.2017
Period of Testing	:	20.07.2017 to 21.07.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	27.50 %	
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/MEW/W.No.14/CSR-07/393a/SAND-Gradation/2017-18 21.07.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **M/s. Mahendra Engineering Works, (Prop. G. Venkatesh),** No. 243, 15th D Cross, 2nd stage, 2nd phase, West of Chord Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of Work	: Improvements and asphalting to 22nd Cross (Pipeline road) Bhuvaneshwari Nagara 1st Main and 1st A Main road, Brundavana Extn., (from pipeline road) in Bagalagunte Ward No. 14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/96/2017-18 Dated: 20.07.2017
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 20.07.2017
Date of Testing	: 21.07.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.80	90-100	90-100	90-100	95-100
2.36	82.30	60-95	75-100	85-100	95-100
1.18	57.30	30-70	55-90	75-100	90-100
600 Micron	27.30	15-34	35-59	60-79	80-100
300 Micron	14.70	5-20	8-30	12-40	15-50
150 Micron	4.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/MEW/W.No.14/CSR-07/393/AGG/GR/2017-18 21.07.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **M/s. Mahendra Engineering Works, (Prop. G. Venkatesh),** No. 243, 15th D Cross, 2nd stage, 2nd phase, West of Chord Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of Work	: Improvements and asphalting to 22nd Cross (Pipeline road) Bhuvaneshwari Nagara 1st Main and 1st A Main road, Brundavana Extn., (from pipeline road) in Bagalagunte Ward No. 14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/96/2017-18 Dated: 20.07.2017
* Sample ID	: Coarse Aggregates (40mm)
Technical Reference	: IS - 2386 (Part 1) -1963 (RA-2011) .
Sample Received on	: 20.07.2017
Date of Testing	: 21.07.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.38	95-100	85-100
20	46.14	30-70	0-20
10	15.72	10-35	0-5
4.75	2.76	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

Note:

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